

Title (en)

Belt reel for a vehicle safety restraint arrangement and method for limiting the retraction speed of a belt during retraction onto a belt reel

Title (de)

Riemenspule für ein Fahrzeugsicherheitshalteanordnung und Verfahren zum Begrenzen der Rückzuggeschwindigkeit eines Riemens bei dem Rückziehen auf eine Riemenspule

Title (fr)

Enrouleur de ceinture pour système de retenue de sécurité de véhicule et procédé de limitation de la vitesse de rétraction d'une courroie lors de la rétraction sur un enrouleur de ceinture

Publication

EP 2682313 B1 20150114 (EN)

Application

EP 12175292 A 20120706

Priority

EP 12175292 A 20120706

Abstract (en)

[origin: EP2682313A1] The present invention relates to a belt reel (20) for a vehicle safety restraint arrangement. The belt reel (20) comprises a retractable and extractable belt (14), a retraction mechanism adapted to retract the belt (14) from an extracted position, a belt retraction brake (30) adapted to limit the retraction speed of the belt (14) during retraction of the belt (14) by imparting a braking force to the belt reel (20) during retraction of the belt (14). The braking force of the belt retraction brake (30) is imparted to the belt reel (20) via inductance. The present invention also relates to a method for limiting the retraction speed arranged on a belt reel. The present invention provides for a belt reel which reduces the risk for damage to the interior panel, lacquer or the vehicle body and/or door, and the belt itself.

IPC 8 full level

B60R 22/34 (2006.01)

CPC (source: EP US)

B60R 22/34 (2013.01 - EP US); **B60R 22/343** (2013.01 - US); **B60R 2022/284** (2013.01 - EP US); **B60R 2022/4493** (2013.01 - EP US)

Cited by

CN107595354A; DE102013217238A1; DE102013217238B4; WO2023220953A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2682313 A1 20140108; **EP 2682313 B1 20150114**; CN 103522978 A 20140122; CN 103522978 B 20170510; US 2014008478 A1 20140109; US 9862351 B2 20180109

DOCDB simple family (application)

EP 12175292 A 20120706; CN 201310280773 A 20130705; US 201313935245 A 20130703